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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/655,375	09/04/2003	Hung C. Ngo	AUS920030497US1	8451
7590	12/13/2004		EXAMINER	
Richard F. Frankeney P.O. Box 50784 1201 Main Street Dallas, TX 75250-0784				CHANG, DANIEL D
			ART UNIT	PAPER NUMBER
			2819	

DATE MAILED: 12/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/655,375	NGO, HUNG C.
	Examiner	Art Unit
	Daniel D. Chang	2819

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 04 September 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-11 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-11 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 04 September 2003 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 9/4/03.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

Claim Objections

Claim 10 is objected to because of the following typographical error: on line 4, "said dynamic" appears to be --said dynamic node--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 10-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Bernstein et al. (US 6,404,236 B1).

Regarding claim 10, Bernstein et al. discloses, in Fig. 2, a dynamic logic circuit having an output (output of 23) and a complementary output (OUTPUT) comprising:

a dynamic node (28);precharge circuitry (24) coupled to said dynamic node for precharging the dynamic node to a logic one during a precharge cycle of a clock signal (CLOCK INPUT);

a logic tree (21) coupled to said dynamic node for evaluating said dynamic node to a logic one or a logic zero in response to combinations of logic states of plurality of logic inputs coupled to said logic tree during an evaluation cycle of said clock signal;

static logic circuitry (26) for latching a logic state of said dynamic node and holding said logic state during said precharge cycle of said clock signal, wherein said static logic circuitry generates said output (via feedback signal) and said complementary output (OUTPUT); and a keeper circuit (23) having a power supply terminal coupled to a power supply voltage (Vdd), a keeper input (gate of 23) coupled to said complementary output and a keeper output (drain of 23) coupled to said dynamic node, wherein said keeper output reinforces a first logic (HIGH) state of said dynamic node only when said dynamic node evaluates to a logic one and said output transitions to a logic zero.

Regarding claim 11, Bernstein et al. discloses, in Fig. 2, that said keeper circuit comprises a P channel field effect transistor (col. 3, lines 50+) having a gate terminal coupled to said complementary output, a source terminal coupled to said power supply terminal and a drain terminal coupled to said keeper output.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bernstein et al. (US 6,404,236 B1) in view of Sprague et al. (US 6,496,038 B1).

As applied previously, Bernstein et al. teaches all the features of the claimed invention, with the exception of teaching the claimed static output logic circuitry.

However, Sprague et al. teaches the static output logic circuitry to provide a static signal from a dynamic node and acts as an interface between dynamic and static environments.

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to have provided the domino logic circuitry of Bernstein et al. with the static output logic circuitry at the dynamic node as taught by Sprague et al. in order to provide an interface between dynamic and static environments.

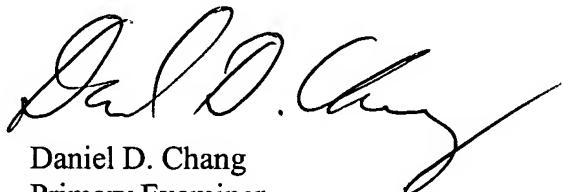
As for the recitations, a data processing system, a CPU, a memory, and a plurality of dynamic logic circuits, it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987). Also, see Chu et al. (US 5,852,373).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel D. Chang whose telephone number is (571) 272-1801. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Tokar can be reached on (571) 272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Daniel D. Chang
Primary Examiner
Art Unit 2819

dc

**DANIEL CHANG
PRIMARY EXAMINER**